

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (Currently amended): A receiver comprising:  
  
a buffer for temporarily storing data received from a transmission path; and  
  
control means for monitoring an amount of accumulation in said buffer, and sending a predetermined control signal to the transmission path based on a result of the monitoring when the amount of accumulation exceeds a predefined threshold or falls short of the threshold,  
  
wherein said control signal causes data transmission to switch between previously accumulated data at one bit rate and data generated by real-time encoding at another bit rate.
  
2. (Original): The receiver according to claim 1, comprising a decoder for retrieving data from said buffer and decoding the retrieved data,  
  
wherein said control means controls such that data is received before data in said buffer is exhausted.
  
3. (Currently amended): A receiver comprising:  
  
monitoring means for monitoring a receiving situation from a transmission path; and  
  
control means for sending a predetermined control signal to the transmission path when the receiving situation changes to a predefined situation,

wherein said control signal causes data transmission to switch between previously accumulated data at one bit rate and data generated by real-time encoding at another bit rate.

4. (Original): The receiver according to claim 3, wherein said predefined situation is a radio handover.

5. (Currently amended): A transmitter comprising:

an accumulation unit for storing ~~at least two types of~~ previously accumulated data and data generated by real-time encoding as media signals at different bit rates;

switching means for receiving a control signal from a transmission path, and retrieving one of the media signal-signals from said accumulating unit ~~with-and~~ switching a bit rate of the media signal based on the control signal; and

means for encoding the retrieved media signal for transmission to the transmission path.

6. (Currently amended): A transmitter comprising:

an accumulation unit for storing ~~at least two or more types of~~ files in which each file stores one of previously accumulated data and data generated by real-time encoding as at least two types of media signals at different bit rates ~~are stored~~;

means for receiving a control signal from a transmission path, switching a file to be retrieved based on the control signal, and retrieving ~~the~~ a file from said accumulation unit; and

means for encoding ~~a~~ the media signal in the retrieved file, for transmission to the transmission line.

7. (Currently amended): A transmitter comprising:

an accumulation unit ~~for storing~~ which stores previously accumulated data and data generated by real-time encoding as a media signal ~~signals at different bit rates;~~

converting means for receiving a control signal from a transmission path, and retrieving one of the media signal ~~signals~~ from said accumulation unit ~~with~~ by converting a ~~the~~ bit rate based on the control signal; and

means for encoding the media signal retrieved from said converting means for transmission to the transmission path.

8. (Currently amended): A transmitter comprising:

an accumulation unit ~~for storing~~ which stores previously accumulated data and data generated by real-time encoding as a media signal ~~signals at different bit rates; and~~

means for reading and delivering the media ~~data~~ signals from said accumulation unit based on a control signal received from a transmission path, at time intervals different from time intervals at which the media ~~signal was~~ signals were encoded.

9. (Currently amended): A transmission/reception system comprising a transmitter for transmitting a media signal to a transmission path, and a receiver for receiving ~~a~~the media signal through the transmission path from said transmitter, wherein:

said receiver comprises:

a buffer for temporarily storing ~~a~~the media signal from said transmitter;

monitoring means for monitoring an amount of accumulation in said buffer; and

control means for sending a control signal to the transmission path when the amount of accumulation exceeds a predefined threshold or falls short of the threshold, and

said transmitter comprises:

accumulating means for storing previously accumulated data and data generated by real-time encoding as at least two types of media signals at different bit rates; and

means for receiving the control signal sent from said receiver to the transmission path, and retrieving one of the media signal signals from said accumulating means ~~with~~by switching the bit rate based on the control signal.

10. (Currently amended): A transmission/reception system comprising a transmitter for transmitting a media signal to a transmission path, and a receiver for receiving ~~a~~the media signal from said transmitter through the transmission path, wherein:

said receiver comprises:

a buffer for temporarily storing ~~a~~the media signal from said transmitter;

monitoring means for monitoring an amount of accumulation in said buffer; and

control means for sending a control signal to the transmission path when the amount of accumulation exceeds a predefined threshold or falls short of the threshold, and

said transmitter comprises:

accumulating means for storing ~~at least two or more types of files~~ in which each file stores one of previously accumulated data and data generated by real-time encoding as at least two types of media signals at different bit rates are stored;

means for receiving the control signal sent from said receiver to the transmission path, switching a file to be retrieved based on the control signal, and retrieving the file from said accumulating means; and

means for encoding a media signal in the retrieved file for transmission to the transmission path.

11. (Currently amended): A transmission/reception system comprising a transmitter for transmitting a media signal to a transmission path, and a receiver for receiving a the media signal from said transmitter through the transmission path, wherein:

said receiver comprises:

monitoring means for monitoring a receiving situation on the transmission path; and

control means for sending a control signal to the transmission path when the receiving situation changes to a predefined situation, and

said transmitter comprises:

accumulating means for storing ~~at least two types of files in which~~ each file stores one of previously accumulated data and data generated by real-time encoding as at least two types of media signals at different bit rates ~~are stored~~;

means for receiving the control signal sent from said receiver to the transmission path, switching a file to be retrieved based on the control signal, and retrieving the file from said accumulating means; and

means for encoding ~~a~~ the media signal in the retrieved file for transmission to the transmission path.

12. (Currently amended): A transmission/reception system comprising a transmitter for transmitting a media signal to a transmission path, and a receiver for receiving ~~a~~ the media signal from said transmitter through the transmission path, wherein:

said receiver comprises:

monitoring means for monitoring an amount of accumulation in a buffer for storing ~~a~~ the media signal; and

control means for sending a control signal to ~~a~~ the transmission path when the amount of accumulation exceeds a predefined threshold or falls short of the threshold, and

said transmitter comprises:

accumulating means for storing previously accumulated data and data generated by real-time encoding as media signals at different bit rates ~~a media signal~~;

converting means for receiving the control signal sent from said receiver to the transmission path, and retrieving ~~the~~ a media signal from said accumulating means ~~with~~ by converting a bit rate based on the control signal; and

means for encoding the retrieved media signal for transmission to the transmission path.

13. (Currently amended): A transmission/reception system comprising a transmitter for transmitting a media signal to a transmission path, and a receiver for receiving ~~a~~ the media signal from said transmitter through the transmission path, wherein:

said receiver comprises:

monitoring means for monitoring a receiving situation on the transmission path; and

control means for sending a control signal to the transmission path when the receiving situation changes to a predefined situation, and

said transmitter comprises:

accumulating means for storing previously accumulated data and data generated by real-time encoding as media signals at different bit rates ~~a media signal~~;

converting means for receiving the control signal sent from said receiver to the transmission path, and retrieving ~~the~~ a media signal from said accumulating means ~~with~~ by converting a bit rate based on the control signal; and

means for encoding the retrieved media signal for transmission to the transmission path.

14. (Currently amended): A transmission/reception system comprising a transmitter for transmitting a media signal to a transmission path, and a receiver for receiving ~~a~~the media signal from said transmitter through the transmission path, wherein:

said receiving means comprises:

monitoring means for monitoring an amount of accumulation in a buffer for storing ~~a~~the media signal; and

control means for sending a control signal to the transmission path when the amount of accumulation in the buffer exceeds a predefined threshold or falls short of the threshold, and

said transmitter comprises:

accumulating means for storing previously accumulated data and data generated by real-time encoding as media signals at different bit rates~~a media signal~~;

means for receiving the control signal sent from said receiver to the transmission path, reading and delivering~~the~~ a media signal stored in said accumulating means based on the control signal from said accumulating means at time intervals different from time intervals at which the media signal was encoded; and

means for encoding the delivered media signal for transmission to the transmission path.

15. (Currently amended): A transmission/reception system comprising a transmitter for transmitting a media signal to a transmission path, and a receiver for receiving~~a~~ the media signal from said transmitter through the transmission path, wherein:

said receiver comprises:



monitoring means for monitoring a receiving situation on the transmission path; and  
control means for sending a control signal to the transmission path when the receiving situation changes to a predefined situation, and

said transmitter comprises:

accumulating means for storing previously accumulated data and data generated by real-time encoding as media signals at different bit rates~~a media signal~~;

means for receiving the control signal sent from said receiver to the transmission path, and reading and delivering ~~the~~ a media signal stored in said accumulating means from said accumulating means based on the control signal at time intervals different from time intervals at which the media signal was encoded; and

means for encoding the delivered media signal for transmission to the transmission path.

16. (Currently amended): A reception method comprising the steps of:

monitoring an amount of accumulation in a buffer for storing a media signal received from a transmission path;

sending a predetermined control signal to the transmission path when the amount of accumulation in the buffer exceeds a predefined threshold or falls short of the threshold; and

carrying out a control such that data is received before data in said buffer is exhausted,  
wherein said control signal causes data transmission to switch between previously accumulated data at one bit rate and data generated by real-time encoding at another bit rate.

17. (Currently amended): A reception method comprising the step of:  
monitoring a receiving situation from a transmission path; and  
sending a predetermined control signal to the transmission path when the receiving situation changes to a predetermined situation,  
wherein said control signal causes data transmission to switch between previously accumulated data at one bit rate and data generated by real-time encoding at another bit rate.

18. (Original): The reception method according to claim 17, wherein said predetermined situation is a radio handover.

19. (Currently amended): A transmission method comprising the steps of:  
storing ~~at least two types of~~ previously accumulated data and data generated by real-time encoding as media signals at different bit rates in an accumulation unit;  
receiving a control signal from a transmission path, and retrieving one of the media-signal signals from said accumulation unit ~~with~~ by switching the bit rate based on the control signal;  
and  
encoding the retrieved media signal for transmission to the transmission path.

20. (Currently amended): A transmission method comprising the steps of:

~~storing at least two or more types of files in which~~ each file stores one of previously  
accumulated data and data generated by real-time encoding as at least two types of media signals  
~~at different bit rates are stored in an accumulation unit;~~

receiving a control signal from a transmission path, switching a file based on the control  
signal, and retrieving ~~the~~ a file from said accumulation unit; and

encoding ~~a~~ the media signal in the retrieved file for transmission to the transmission  
path.

21. (Currently amended): A transmission method comprising the steps of:

receiving a control signal from a transmission path;

changing a bit rate of a media signal stored in an accumulation unit, which stores  
previously accumulated data and data generated by real-time encoding as media signals at  
different bit rates, based on the control signal and retrieving the media signal; and

encoding the retrieved media signal for transmission to the transmission line.

22. (Currently amended): A transmission method comprising the steps of:

receiving a control signal from a transmission path; and

reading and delivering a media signal from an accumulation unit, ~~for storing the media~~  
~~signal~~ which stores previously accumulated data and data generated by real-time encoding as

media signals at different bit rates, based on the control signal at time interval different from time intervals at which the media signal is encoded.

23. (Currently amended): A transmission/reception method comprising the steps of:

in a receiver for receiving a media signal through a transmission path, monitoring an amount of accumulation in a buffer for storing the media signal;

sending a control signal from said receiver to the transmission path when the amount of accumulation exceeds a predefined threshold or falls short of the threshold;

in a transmitter for transmitting the media signal to the transmission path, storing ~~at least two types of previously accumulated data and data generated by real-time encoding as media~~ signals at different bit rates to an accumulation unit;

upon receipt of the control signal sent from said receiver to the transmission path, ~~and retrieving the~~ a media signal from said accumulating means ~~with~~ by switching the bit rate based on the control signal; and

encoding the retrieved signal for transmission from said transmitter to the transmission path.

24. (Currently amended): A transmission/reception method comprising the steps of:

in a receiver for receiving the media signal through a transmission path, monitoring an amount of accumulation in a buffer for storing the media signal;

sending a control signal from said receiver to the transmission path when the amount of accumulation in said buffer exceeds a predefined threshold or falls short of the threshold;

in a transmitter for transmitting the media signal to the transmission path, storing ~~at least two or more types of~~ files in which ~~at least two types of~~ each file stores one of previously accumulated data and data generated by real-time encoding as media signals at different bit rates ~~are stored in an accumulation unit;~~

receiving the control signal sent from said receiver to the transmission path at said transmitter;

switching a file based on the control signal, and retrieving the file from said accumulation unit; and

encoding ~~a~~ the media signal in the retrieved file for transmission to the transmission path.

25. (Currently amended): A transmission/reception method comprising the steps of:  
in a receiver for receiving a media signal through a transmission path, monitoring a receiving situation on the transmission path;

sending a control signal from said receiver to the transmission path when the receiving situation changes to a predefined situation;

in a transmitter for transmitting a media signal to the transmission path, storing ~~at least two types of~~ files in which ~~at least two types of~~ each file stores one of previously accumulated

data and data generated by real-time encoding as media signals at different bit rates are stored in  
an accumulation unit;

receiving the control signal sent from said receiver to the transmission path at said  
transmitter;

switching a file based on the control signal, and retrieving the file from said accumulation  
unit; and

encoding ~~a~~ the media signal in the retrieved file for transmission from said transmitter to  
the transmission path.

26. (Currently amended): A transmission/reception method comprising the steps of:  
in a receiver for receiving the media signal through a transmission path, monitoring an  
amount of accumulation in a buffer for storing the media signal;

sending a control signal from said receiver to the transmission path when the amount of  
accumulation in said buffer exceeds a predefined threshold or falls short of the threshold;

in a transmitter for transmitting a media signal to the transmission path, receiving the  
control signal sent from said receiver to the transmission path;

retrieving ~~the~~ a media signal from an accumulation unit, which stores ~~the media signal~~  
~~with previously accumulated data and data generated by real-time encoding as media signals at~~  
different bit rates, by changing a bit rate based on the control signal; and

encoding the retrieved media signal for transmission from said transmitter to the  
transmission line.

27. (Currently amended): A transmission/reception method comprising the steps of:

in a receiver for receiving a media signal through a transmission path, monitoring a receiving situation on the transmission path;

sending a control signal from said receiver to the transmission path when the receiving situation changes to a predefined situation;

in a transmitter for transmitting a media signal to the transmission path, receiving the control signal sent from said receiver to the transmission path;

~~retrieving the~~ a media signal from an accumulation unit, which stores the media signal with previously accumulated data and data generated by real-time encoding as media signals at different bit rates, by changing a bit rate based on the control signal; and

encoding the retrieved media signal for transmission from said transmitter to the transmission line.

28. (Currently amended): A transmission/reception method comprising the steps of:

in a receiver for receiving a media signal through a transmission path, monitoring an amount of accumulation in a buffer for storing the media signal;

sending a control signal from said receiver to the transmission path when the amount of accumulation in said buffer exceeds a predefined threshold or falls short of the threshold;

in a transmitter for transmitting a media signal to the transmission path, receiving the control signal sent from said receiver to the transmission path;

reading and delivering a media signal stored in an accumulation unit of said transmitter,  
which stores previously accumulated data and data generated by real-time encoding as media  
signals at different bit rates, based on the control signal at time intervals different from time  
intervals at which the media signal is encoded; and

encoding the delivered media signal for transmission from said transmitter to the  
transmission path.

29. (Currently amended): A transmission/reception method comprising the steps of:  
in a receiver for receiving a media signal through a transmission path, monitoring a  
receiving situation on the transmission path;

sending a control signal from said receiver to the transmission path when the receiving  
situation changes to a predefined situation;

in a transmitter for transmitting a media signal to the transmission path, receiving the  
control signal sent from said receiver to the transmission path;

reading and delivering a media signal stored in an accumulation unit of said transmitter,  
which stores previously accumulated data and data generated by real-time encoding as media  
signals at different bit rates, based on the control signal at time intervals, different from time  
intervals at which the media signal is encoded, from said accumulation unit; and

encoding the delivered media signal for transmission from said transmitter to the  
transmission path.